



# **CJCSI 3170.01B**

## **Requirements Generation System**

### **(One Year Later)**

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# Agenda



- **Introduction**
- **CJCS 3170 Changes**
- **Role of M&S**
- **Summary**
- **Questions**



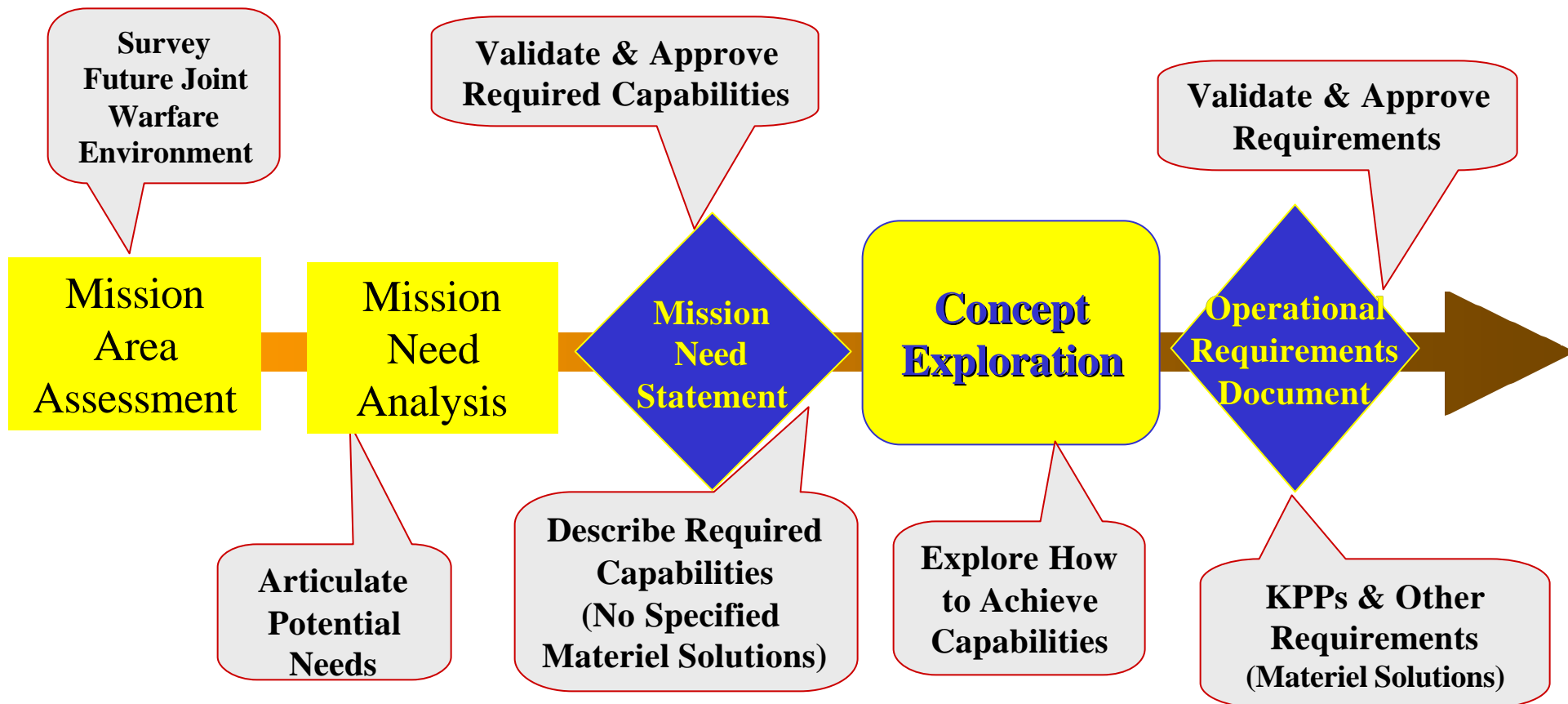
# Joint Vision 2020



**“Up-front” planning must provide the framework for identifying future operational capabilities!**



# Requirements Generation Process





# CJCSI 3170.01A



**SWARF**

**Automated Information  
Systems**

**JFCOM Role**

**Interoperability**

**CRD/ORD KPP**

**Information Exchange  
Requirements**

**Affordability**

**Time Phased Requirements**

**CRD Development &  
Lead Responsibilities**



# Interoperability: JFCOM Role



**JFCOM will serve as the Chairman's advocate for joint warfighting interoperability.**

- **JFCOM**
  - **Coordinates with the Joint Staff J6, ASD(C3I) and the CINCs in development of the C4ISR Joint Operational Architecture (JOA).**
  - **Provides comments on unresolved Interoperability issues at the JROC.**
  - **Is available to comment on interoperability issues that are forwarded to the DAB by the JROC.**
  - **Coordinates on all C4ISPs (contains IA areas)**
  - **Is Lead for Joint Experimentation**

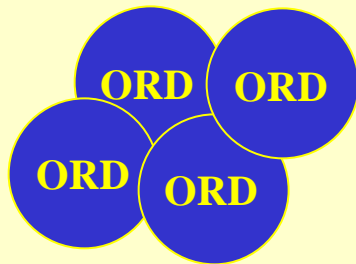
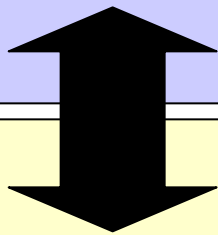


# Enforcing Interoperability



**Establishes the Information Exchange and Interoperability requirements for the Family of Systems. Leads to the development of the Mission Area architectures**

**CINC Lead**



**ORDs comply with CRD Interoperability KPP as price of membership into the Family of Systems**

**Service Lead**





# CRD Development and Lead Responsibilities



- **CRD development approved by JROC**
- **CRD contains Interoperability KPP**
- **CRD lead will**
  - Accompanies all ORDs falling under the CRD through the JROC and acquisition milestone reviews
  - Ensures the ORDs KPPs map to the CRD



# Information Exchange Requirements (IERs)



## Definition:

Requirements for information to be passed between and among Joint forces, organizations, or administrative structures.

(DOD C4ISR Architecture Framework Version 2.0)

## Identifies:

- **WHO** exchanges
- **WHAT** information
- with **WHOM**
- **WHY** the information is necessary
- **HOW** the information is used
- **ATTRIBUTES (READ METRICS)** to further define the requirement and add levels of detail necessary to support the warfighter



# Time-Phased Requirements



- **Supports Evolutionary Acquisition**
- **Fields system in increasing increments of capability as defined by:**
  - **Warfighter needs**
  - **Evolving threat**
  - **Available technology**
  - **Affordability**



# Time-Phased Requirements (*Guidelines*)



- JROC approved KPP's *must* be achieved in the specified increment
  - If increments are not defined in the ORD, all KPP thresholds must be met in the first increment
- Delegated ORD approval authorities may approve “block” ORD's if no KPP's are involved
- Each Increment *must* have *standalone* military utility
  - Must be acceptable to the user even if no further increments are funded (per Clinger-Cohen)



# Time-Phased Requirements (*Strategies*)



- **New ORD for each block**
  - Suitable for slowly developing programs
- **Multiple-Block ORD**
  - Define multiple blocks in the same ORD - captures old “P3I”
- **ORD Update for each block**
  - Rapid turnaround update---staff changes only



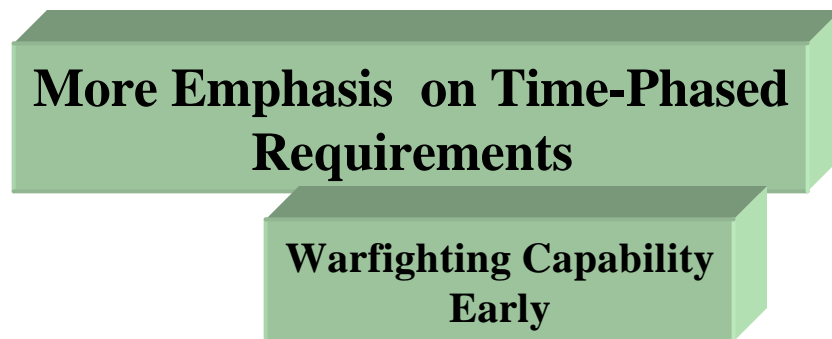
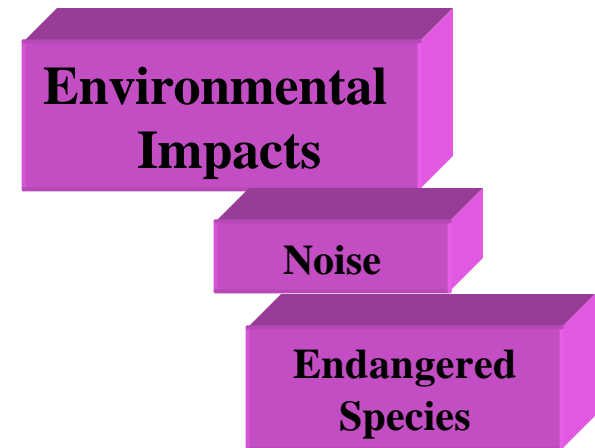
# Addressing Cost in ORD



- **Cost will be addressed in the ORD**
- **Inclusion of cost allows DoD component sponsor to emphasize affordability early in the proposed program**
- **Cost figure should be stated in terms of a threshold and Objective (not necessarily a KPP)**
- **The cost figure should provide flexibility to allow for program evolution and CAIV trade studies**
- **DoD component sponsor may make cost a KPP if it desires and identify the cost it wishes to evaluate**



# CJCSI 3170.01B (Interim) Changes





# DOTMLPF



**(Doctrine, Organization, Training, Materiel, Leader Development, Personnel & Facilities)**

- **Review for Joint implications**
- **Identify deficiencies and determine solutions and cost**
- **Submit to JROC for approval of solutions and resources**
- **JFCOM has major role – Joint Experimentation**





# Roles for M&S



## Measuring M&S Effectiveness

- **Outcome-Based Measures**

- Reduced total ownership costs
- Reduced acquisition cycle times
- Increased operational capability
- Improved ability to concurrently deploy systems with their training devices

- **Process-Based Measures**

- Ability to reuse M&S
- Extent of collaboration
- Remain cost effective
- Extent of netted and distributed network

**Earlier deployment of affordable, leading-edge capabilities to warfighters**



# Environmental Impacts



**(Noise, Air, Soil, Endangered Species & Other Effects)**

- **Encroachments into training areas – reduces proficiency**
- **Restrictions on DT and OT – cannot stress systems on test ranges**
- **Saturation of frequency spectrum – less bandwidth availability**
- **Must be addressed during requirements generation and early system design – Pay Now or Pay Later!**



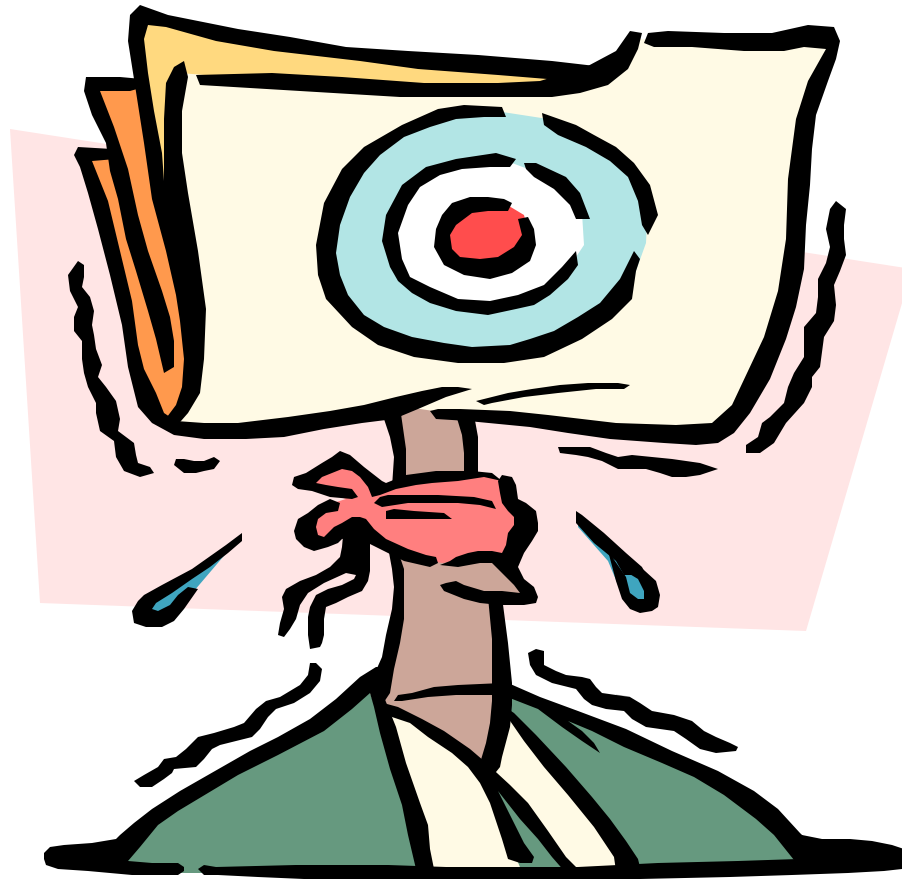
# Summary



- **Greater warfighter role in requirements generation**
- **Clear focus on interoperability**
- **Supports evolutionary acquisition & time-phased requirements**
- **Streamlines staffing process where appropriate**
- **More emphasis on DOTMLPF – M&S can add value!**
- **Considers environmental impacts**
- **Early fielding of warfighting capability - M&S can add value!**



# Questions





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